

Title (en)
ILLUMINATION DEVICE AND IMAGE PROJECTION APPARATUS

Title (de)
BELEUCHTUNGSVORRICHTUNG UND BILDPROJEKTIONSVORRICHTUNG

Title (fr)
DISPOSITIF D'ÉCLAIRAGE ET APPAREIL DE PROJECTION D'IMAGES

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Application
EP 16752096 A 20160209

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Abstract (en)
[origin: US2018024425A1] This invention is concerning an illumination device that can obtain illumination light efficiently. An illumination device 1 used in, for example, a projection display apparatus includes a light source and a light tunnel 14. The light tunnel 14 includes a light incident port 15, a light emission port 16, a light guide path 17, a reflection surface 20 surrounding the light guide path 17, a phosphor layer 19 that generates fluorescent light LF having a different wavelength range from that of excitation light LE when being excited by the excitation light LE, a condensing optical system 13 that diverges the excitation light LE in the vicinity of the light incident port 15 and guides the diverged light into the light tunnel 14 to irradiate the phosphor layer 19, and a wavelength selection element that reflects the fluorescent light LF toward the light emission port 16.

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